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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/759,630	01/16/2004	Christian Otto Boemmel	21334-1294	1211	
29450 75	590 04/18/2005		EXAMINER		
BARLEY SNYDER, LLC 1000 WESTLAKES DRIVE, SUITE 275			HYEON, HAE M		
BERWYN, PA 19312			ART UNIT	PAPER NUMBER	
•			2839		
			DATE MAILED: 04/18/200	DATE MAILED: 04/18/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/759,630	BOEMMEL ET AL.				
Office Action Summary	Examiner	Art Unit				
•	Hae M. Hyeon	2839				
The MAILING DATE of this communication app						
Period for Reply		•				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.12 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period volume to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE!	ely filed will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status	•					
1) Responsive to communication(s) filed on 28 M	larch 2005.					
	action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 11 and 17-24 is/are pending in the ap 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 11 and 17-24 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on 16 January 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	: a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. Settion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119		×				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicati city documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6/9/04.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

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DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of the invention Group II in the reply filed on March 28, 2005 is acknowledged.

Specification

2. The disclosure is objected to because of the following informalities: On page 10, line 17, "the mating connector 14" should be -- the mating connector 24 --.

Appropriate correction is required.

3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.
- 5. Claims 11 and 17-24 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements, such omission amounting to a gap between the elements. See MPEP § 2172.01. The omitted elements are: conductors and a ribbon cable.

According to the present specification, the ribbon receives a flexible printed circuit board between two part plates. Since claims 11 and 17-24 do not recite the flexible printed circuit board, the limitations such as contact openings recited in claim 19 and the receiving space recited in claim 20 are unclear. It is not clear how the contacts are structurally work with the contact

opening or what is being received in the receiving space. Also, how the two part plates form a connector when the claims only recite the structure of two part plates without any contacts, which are an essential part of a connector.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 11, 17-20, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Narozny (4,067,637) in view of Deverrewaere (4,193,659).

Narozny discloses a continuous ribbon 20 configured to be severed to form a plurality of connector with a varying width, the ribbon 20 comprising two part plates 22 and 24. Two part plates 22 and 24 are latched to each other to form a connector with a receiving space 58 therebetween. Figures 6 and 7 show each plate having spacers on an internal face thereof which define a gap 58 between the two part plates. Figure 4 shows the lower plate 22 having an opening 40 for receiving a contact 42. Figure 14 shows two plates having two contacts opposite to each other. However, the two part plates of the ribbon 20 are not mutually connected by an integral flexible connecting piece. Instead, two part plates are latched to each other.

Deverrewaere discloses a connector 50 comprising two part plates 52 and 54 mutually connected by an integral flexible connecting piece 56 and 58, which are folded onto each other to form a connector with a receiving space therebetween. Deverrewaere teaches that the connector

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50 provides a tight hold of a flexible printed circuit board within the connector 50. Also the connector 50 maintains a good electrical connection between the printed circuit board and pins of a mating connector by pressing the printed circuit board directly onto the pins.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify the ribbon taught by Narozny such that it would have an integral flexible connecting piece to mutually connect the two part plates as taught by Deverrewaere because one of the plate pieces would not be misplaced easily since they are connected to each other and two plate pieces would provide a tight hold of a flexible printed circuit board between the two plate pieces.

8. Claims 21 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Narozny and Deverrewaere as applied to claims 11, 17-20 and 23 above, and further in view of Strate (4,813,892).

Claims 21 and 22 recite that one part plate has a groove or a web on an external surface parallel to an insertion direction of the connector for providing a correct insertion position of the connector.

While Narozny and Deverrewaere do not disclose a groove or a web, Strate discloses a connector having a plurality of projections 5, 7 for a correct insertion position of the connector.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify the connector taught by Narozny or Deverrewaere such that it would have a plurality of projections as taught by Strate because the projections would ensure the proper insertion position of the connector.

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9. Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Narozny and Deverrewaere as applied to claims 11, 17-20 and 23 above, and further in view of Ortega et al (5,830,012).

Claim 24 recites that the ribbon is disposed on a reel, but Narozny does not disclose the ribbon 20 being disposed on a reel.

Ortega discloses a continuous electrical connectors strip disposed on a reel (see Fig. 11) for storage or transportation purpose.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to dispose the ribbon taught by Narozny on a reel as taught by Ortega because the reel provides easy storage or transportation.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patent No. 3,325,769 by Travis and US Patent No 4,717,360 by Czaja disclose a continuous connector.

US Patent No. 3,519,978 by Taormina et al., US Patent No. 3,641,482 by Bretting, and US Patent No. 4,225,205 by Sinclair et al. disclose a connector for from two part plates connected by an integral connecting piece at an edge of the plates.

US Patent No. 4,376,565 by Bird et al. discloses a connector having a plurality of alignment projections.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hae M. Hyeon whose telephone number is 571-272-2093. The examiner can normally be reached on Mon.-Fri. (8:30-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tulsidas C. Patel can be reached on (571) 272-2098. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Hae M Hyeon **Primary Examiner** Art Unit 2839

hmh hmh

Hae Moon Hyeon

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